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(54) USE OF IMMUNE CELL-SPECIFIC GENE EXPRESSION FOR PROGNOSIS OF PROSTATE CANCER AND PREDICTION OF RESPONSIVENESS TO RADIATION THERAPY

(57) Methods, systems, and kits for the diagnosis, prognosis and the determination of cancer progression of prostate cancer in a subject are disclosed. In particular, the disclosure relates to the use of immune cell-specific gene expression in determining prognosis and identifying individuals in need of treatment for prostate cancer who will be responsive to radiation therapy.

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EUROPEAN SEARCH REPORT

Application Number
EP 24 18 9348

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	DEN ROBERT B ET AL: "Genomic Prostate Cancer Classifier Predicts Biochemical Failure and Metastases in Patients After Postoperative Radiation Therapy", INTERNATIONAL JOURNAL OF RADIATION: ONCOLOGY BIOLOGY PHYSICS, PERGAMON PRESS, USA, vol. 89, no. 5, 8 July 2014 (2014-07-08), pages 1038-1046, XP028864005, ISSN: 0360-3016, DOI: 10.1016/J.IJROBP.2014.04.052 * Abstract; Introduction, column 2; Figures 1-2; Discussion * -----	1-6	INV. C12Q1/6886 G01N33/574 A61K45/06 A61K39/395 C07K16/28
A	ZHAO SHUANG G ET AL: "Development and validation of a 24-gene predictor of response to postoperative radiotherapy in prostate cancer: a matched, retrospective analysis", THE LANCET ONCOLOGY, ELSEVIER, AMSTERDAM, NL, vol. 17, no. 11, 12 October 2016 (2016-10-12), pages 1612-1620, XP029794201, DOI: 10.1016/S1470-2045(16)30491-0 * Abstract; page 1615, panel; Discussion * -----	1-6	TECHNICAL FIELDS SEARCHED (IPC) C12Q G01N
A	JENNIFER H. YEARLEY ET AL: "PD-L2 Expression in Human Tumors: Relevance to Anti-PD-1 Therapy in Cancer", CLINICAL CANCER RESEARCH, vol. 23, no. 12, 15 June 2017 (2017-06-15) , pages 3158-3167, XP055487022, US ISSN: 1078-0432, DOI: 10.1158/1078-0432.CCR-16-1761 * Abstract; Figure 4 * -----	1-6	

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	31 October 2024	Aguilera, Miguel

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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L : document cited for other reasons

& : member of the same patent family, corresponding document

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